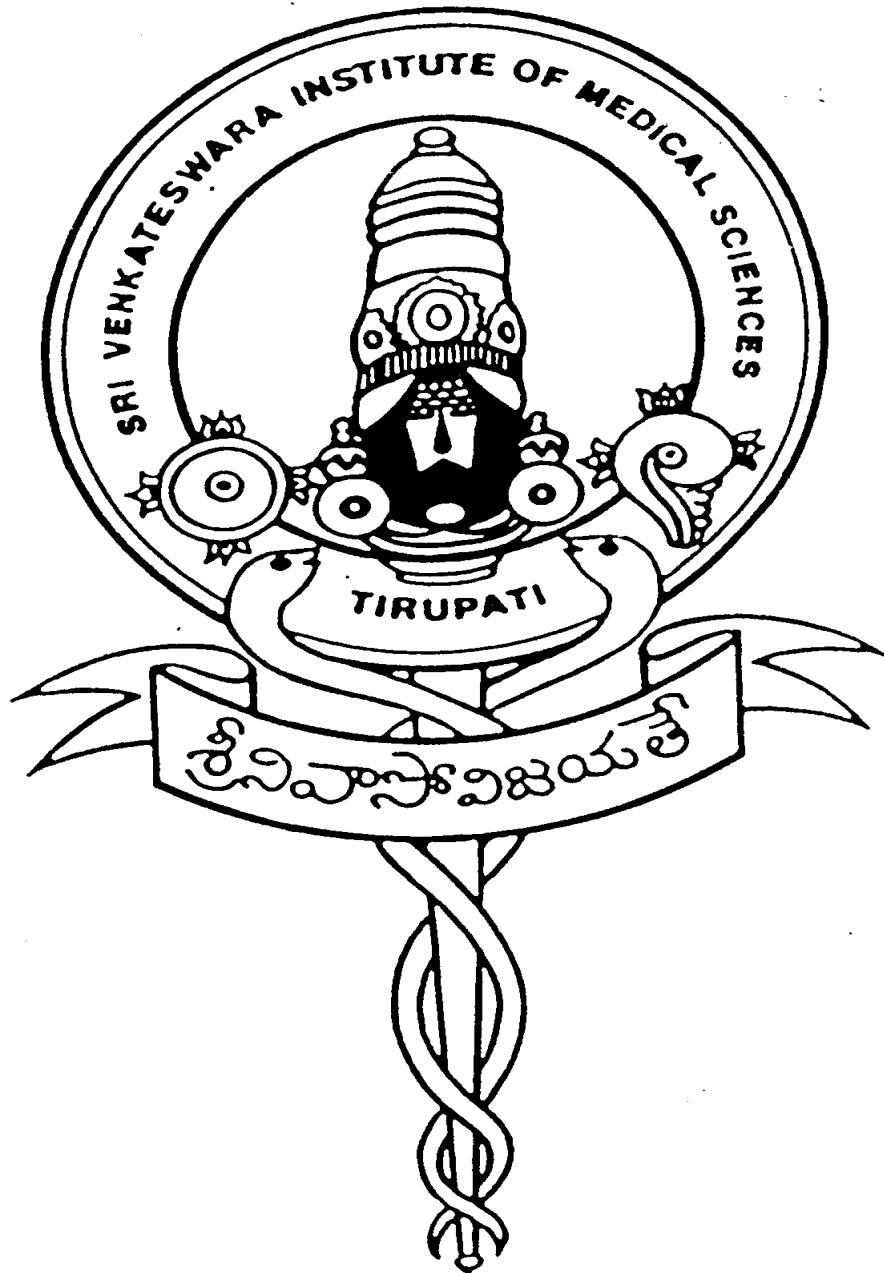


**TENDER DOCUMENT  
FOR EQUIPMENT**



**OFFICE OF THE  
Asst. Director (Purchase)  
SRI VENKATESWARA INSTITUTE OF MEDICAL  
SCIENCES, TIRUPATI.  
(SVIMS)**

**SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES: TIRUPATI**

**TENDER SCHEDULE FOR THE SUPPLY OF EQUIPMENT**

**DUE DATE 01.06.2015**

**(To be submitted along with your technical offer)**

**Phone: 0877-2287777 Ext: 2223, 2224**

**Fax: 0877 - 2286803 / 2286116**

**E-mail: [purchasedept@svims.gov.in](mailto:purchasedept@svims.gov.in)  
[svimshosp@yahoo.com](mailto:svimshosp@yahoo.com)**

**Separate Tender forms are to be used for each equipment.**

Name of the Tenderer :

Equipment quoted :

I / We hereby offer to supply the equipment referred to and as described in the Annexed Schedule at the rate noted against It for delivery at the office of the Assistant Director (Purchase), Sri Venkateswara Institute of Medical Sciences, Tirupati as per the annexed rules, terms & conditions of the contract. The annexed terms & conditions are duly signed in token of my / our acceptance of the same and returned herewith.

The crossed Demand Draft for Rs. \_\_\_\_\_ towards the E.M.D. is enclosed.

Yours faithfully,

Place :

Date :

**Signature of the Tenderer with seal**

(To be signed by authorized Signatory)  
Full Address of the Tenderer

**NOTE: This document is not transferable.**

**DECLARATION**

I / We do hereby declare that I / we shall keep my / our offer open for a period of six months for acceptance. I / we shall abide by and give my / our acceptance to the annexed terms & conditions of the tender and purchase order and shall execute an agreement in the prescribed form, in the event of my / our offer being accepted by SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES.

Place :

Date :

**Signature of the Tenderer with seal**  
(To be signed by an authorized signatory)

**MANDATORY REQUIREMENTS:**

1. EMD in the form of Demand Draft.
2. Authorization Certificate from Principal/self declaration stating that the tenderer is the manufacturer.
3. Separate covers for Technical Offer & Financial Offer.
4. VAT registration certificate
5. Five years warranty period certificate
6. Acceptance letter from the supplier for less than 4% CAMC charges which includes applicable taxes as mentioned in the tender document.
7. Affidavit on Rs. 10/- non-judicial stamp paper stating that the firm has not been convicted / black-listed by any hospital / organization and the firm has no VIGILANCE/CBI/FEMA case pending against firm/supplier(principal)
8. Affidavit on Rs. 10/- non-judicial stamp paper stating that the Tenderer will provide all the service i.e. man power, parts, accessories and consumables during warranty and AMC period (10 years)

**Note: If the above requirements are not met, the tender is liable for rejection, at the discretion of SVIMS.**

**CHECK LIST OF ENCLOSURES TO THE TENDER SCHEDULE** (to be filled in by the Tenderer)

- |   |                                |
|---|--------------------------------|
| 01. Tender Schedule   | : ENCLOSED / NOT ENCLOSED      |
| 02. E.M.D.  | : ENCLOSED / NOT ENCLOSED      |
| Bank Draft No. & Date   | :                              |
| Bank Name   | :                              |
| Drawn On  | for Rs.                        |
| 03. VAT Certificates  | : ENCLOSED / NOT ENCLOSED      |
| 04. warranty certificate  | : ENCLOSED / NOT ENCLOSED      |
| 05. Authorisation Certificate   | : ENCLOSED / NOT ENCLOSED      |
| 06. Illustrative Literature   | : Particulars.<br><br>1)<br>2) |
| 07. Certificate of Agency if any :  | ENCLOSED / NOT ENCLOSED        |
| 08. Compliance statement for specifications   | : ENCLOSED / NOT ENCLOSED      |
| 09. Affidavits (02) as per the above mandatory requirement vide point no. 07 & 08.  | : ENCLOSED / NOT ENCLOSED      |
| 10. Affidavit that the firm is not supplying the same item at the lower rate than quoted in the tender to any Govt. organization or any other Institute (Fall clause) : | ENCLOSED / NOT ENCLOSED        |
| 11. Quality assurance certificates like CE, ISO, US, FDA or any other.<br>Please specify: _____   |                                |
| 12. Technical quotation of the equipment quoted with full details of the equipment along with warranty period and AMC charges and other terms and conditions            | :<br>ENCLOSED / NOT ENCLOSED   |
| 13. List of Consumables along with prices with validity period (to be enclosed in cover – B). :   | ENCLOSED / NOT ENCLOSED        |

Place :  
Date :

**Signature of the Tenderer with seal**  
(To be signed by an authorized signatory)

**N.B: Tenderer has to verify and mention above, whether the particular documents are enclosed or not.**

**INFORMATION TO BE FILLED IN BY THE TENDERER:**

01. Make & Model offered :
02. Country of the origin of the goods :
03. Servicing / Repair facilities :  
availability in India.
04. Availability of Spares & Consumables :  
for next 10 years
05. Particulars of Institutions to whom :  
similar supplies were made  
(Enclose separate list)
06. Whether rates are quoted as per tender specifications:
07. Time required for supply from the date :  
of order
08. Breakdown response time in hours :
09. Lead time in days for supplying spares : Indigenous :  
Imported :

Place :  
Date :

**Signature of the Tenderer with seal**

**TERMS & CONDITIONS FOR SUPPLY OF HOSPITAL EQUIPMENT TO  
SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES, T.T.Ds.,  
TIRUPATI – 517 507, ANDHRA PRADESH, INDIA**

- 01. Sealed tenders from the manufacturers or their authorized distributors or accredited dealers or agents or stockists are invited for supply of the equipment as per the enclosed specification, by the Director-cum-VC., Sri Venkateswara institute of Medical Sciences, TTDs., Tirupati – 517 507, as per the notification already issued.
- 02. Sealed cover containing ‘Technical Offer Cover’(cover A) and ‘Financial Offer Cover’(cover B), duly super-scribing as “Tender for the supply of -----due on **01.06.2015**”, addressed to the Director, Sri Venkateswara Institute of Medical Sciences, Tirupati - 517 507, **should be delivered at Purchase department** on or before **01.00 p.m. on 01.06.2015**. Postal and courier delays shall not be considered.

N.B. If the above date is declared as holiday, the next working day shall be the due date for receipt of tenders.

- 03. The tenderer has to download the tender document from the SVIMS website and shall enclose the tender cost of Rs. 3000/- in the form of DD drawn in favour of The Director, SVIMS and to be submitted along with the EMD. The Tenderer should attest any alteration or overwriting. **THE TENDERER HAS TO SIGN ON EACH PAGE OF THE TENDER DOCUMENT BY AFFIXING SEAL.**

**04. EARNEST MONEY DEPOSIT:**

- (i) Every tender must be accompanied by a crossed Demand Draft for the amount given in the tender notice towards EMD, payable on any scheduled Bank at Tirupati, and in favor of the **DIRECTOR, SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES, TIRUPATI**.
- (ii) EMD is not accepted in the form of cheques, postal orders, bank guarantees or bank demand drafts issued on the personal name of the Officers of Sri Venkateswara Institute of Medical Sciences, TTDs, Tirupati or by any other mode of remittance.
- (iii) The E.M.D. will be returned to unsuccessful Tenderers without interest after one month from the date of finalization of tender. The E.M.D. amount will be returned to the successful Tenderer without interest after submission of Security Deposit.
- (iv) **The EMD amount in the form of Demand Draft is to be enclosed in the “TECHNICAL OFFER COVER”.**

**(Signature of the Tenderer with seal)**

**05. SECURITY DEPOSIT :**

- (a) Successful Tenderer shall be required to pay security deposit of 10% on Cost Insurance Freight(CIF) or Free on Road (FOR) value inclusive of the taxes by way of Demand Draft within 15 days from the date of placement of purchase orders and shall execute an agreement for faithful and satisfactory performance of contract. Specimen copy of the agreement is enclosed. The Security Deposit amount will be returned only after the successful completion of warranty period. If the value of the Security Deposit is more than Rupees One lakh, the same may be submitted in the form of Bank Guarantee. The validity of Bank Guarantee shall be 66 months/30 months as the case may be.
- (b) The tenderer will forfeit the Security Deposit for any non-performance of the equipment or default during warranty period.

**06. GENERAL CONDITIONS:**

1. Tenderer is required to sign the declaration given in second page of the tender document, indicating date and affixing the rubber stamp with the designation or status enjoyed by the signatory in the firm, and the same signatory shall be required to execute agreement under his signature only. The signatory should produce documentary evidence of empowering him to do so, if called upon at any time during the contract period. In case of change of the person of the signatory it is bound on the Tenderer to inform the changes to the SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES.
2. The Tenderer has to mention about the availability of spares for next 10 years, nearest service centers, and willingness to train our Sr. Bio-Medical Engineer for minor problems and also to submit circuit diagram and Schematic diagram.
3. The Tenderer has to mention about the willingness for entering into service contract with spares for five years or more after warranty is over, along with necessary terms & conditions (i.e. servicing CAMC condition).
4. No commission will be paid to Indian agents.
5. This invitation is under Two Bid (Techno-Commercial) System. Separate sealed covers are to be used for technical details and price details.

**Cover 'A': Technical offer i.e. full details of the equipment and accessories offered (quotation without price), EMD, Catalogues, Tender document, LC opening Instructions ,Terms & Conditions, Warranty certificate, AMC charges (in percentage only) etc.**

**Cover 'B': Only price details of the equipment, accessories and AMC charges.**

**Note:** To mention as "Technical Offer" on Cover 'A' and as "Financial Offer" on Cover 'B' and the "name of the equipment" and "name of the Tenderer" are to be mentioned on each cover. No financial details shall be given in cover 'A'.

**Tenders not submitted as per the above system will be summarily rejected.** The price offers of technically rejected firms will not be opened.

**(Signature of the Tenderer with seal)**

6. The Tenderer has to quote OGL reference if any.
7. The Principals have to issue a certificate to the effect that they will take responsibility if Indian agent fails to attend service or if there is any change in Indian agency during warranty / AMC period.
8. To produce a Certificate from Principals to continue / accept service contract at the rate mentioned in the purchase order in the event of change in Indian agency, to be submitted after issuing the Letter of Intent.
9. Principals / Indian agents should inform us well in advance of shipment, about the civil & electrical works that are needed for Installation. Indian agents should be present at the time of opening of boxes to certify the correctness of the equipment.
10. If Principals are not able to ship the goods before the expiry of Letter of Credit period, they have to pay Bank charges like, extension charges, cable charges etc.
11. If selected, Security Deposit i.e, 10% of the Purchase Order value is to be submitted by the Indian agents.
12. Tenders from the persons / firms convicted under the Sales Tax or any other relevant Acts and Rules will be rejected summarily. The Tenderer has to submit a self declaration regarding non-conviction under any law/ by any hospital on a non-judicial stamp paper of Rs.10/-.
13. Terms and conditions of the sale of each item or the items should be precise and clearly mentioned in tender(s).
14. Illustrative literature should invariably accompany the tenders and it should also bear the signature of the Tenderer for identification. The tender specification compliance statement has to be enclosed indicating the fulfillment of each parameter.
15. The acceptance of the tender will be intimated to the successful Tenderer within the validity period of the tender and if some delay is likely to occur, Tenderer will be required to keep their offer open for further period as may be found necessary.
16. Tenders which are not in accordance with the specifications mentioned shall be rejected.
17. ***Warranty is must for 5 years*** and it starts from the date of installation.
18. The successful Tenderer along with supply of the equipment has to provide certificate to the effect that the equipment supplied is not refurbished equipment issued by any Government agency.
19. The successful Tenderer has to enter into a performance agreement with SVIMS.
20. The tender document should be paged and a certificate may be provided on the covering letter indicating the number of pages submitted along with the tender.
21. A check list of all the enclosures with serial number and page Number is to be furnished properly.

**(Signature of the Tenderer with seal)**

22. The Tender forms be clearly filled in ink legibly or type written giving full address of the Tenderers. The Tenderers should quote in figures as well as in words the rates amount tendered by him/them. Any discrepancy between the figures and words, the amount written in words will prevail. Alterations/over-writings, unless legibly attested by the Tenderer, shall disqualify the tenders. The tenders should be signed by the Tenderer himself/themselves or his/their authorized agent on his/their behalf (Authorization may be enclosed, if applicable).

23. IF THE EARNEST MONEY DEPOSIT IS NOT SUBMITTED, THE TENDER SHALL NOT BE CONSIDERED FOR ACCEPTANCE AND WILL BE OUTRIGHTLY REJECTED. THE EMD SUBMITTED AGAINST OTHER TENDERS CANNOT BE ADJUSTED OR CONSIDERED FOR THIS TENDER. NO INTEREST IS PAYABLE ON EMD.

24. THE TENDERERS ARE REQUIRED TO DEMONSTRATE THE QUOTED MODEL OF THE EQUIPMENT DURING THE TECHNICAL EVALUATION, IF REQUIRED, FAILING WHICH THEIR TENDERS/OFFER SHALL BE REJECTED. The firms are intimated that they should get ready for demonstration and only one-week time will be given for arranging demonstration.

25. Tenderers submitting tenders would be considered to have considered and accepted all the terms and conditions. No enquiries, verbal or written, shall be entertained in respect of acceptance or rejection of the tender.

26. Any action on the part of the Tenderer to influence anybody in the said Institute, will be taken as an offence, and they will not be allowed to participate in the tender enquiry and their offer will not be considered.

27. THE TENDERERS MUST QUOTE THE BEST OPTION AS PER OUR SPECIFICATION. THE OFFER SUBMITTED AS OPTION-A, OPTION-B OR C WILL NOT BE CONSIDERED AND OFFERS SUBMITED IN THE FORM OF MULTIPLE OFFERS WILL BE SUMMERTILY REJECTED.

28. Genuine equipments and instruments etc., should be supplied. Tenderers should indicate the source of supply i.e. name & address of the manufacturers from whom the items are to be imported, country of origin etc.

29. The Tenderers are required to quote the mode of shipment i.e. Air / Sea and should give separate breakup of freight and Insurance Charges.

30. Any foreign bidder should quote through their Indian dealer.

#### **08. TENDER PRICES:**

The Tenderer shall indicate, on the Price Schedule provided, all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified as "NA" by the tenderer.

I. (a) *If offered from with in India.*

- (i) Prices shall be given in Price Schedule A. Institute is not authorised to issue Form "C" or "D".
- (ii) No enhancement of price will be allowed.

**(Signature of the Tenderer with seal)**

*(b) If offered from out-side India.*

- (i) Prices shall be given in Price Schedule B.
- (ii) **Bank charges outside India are to the account of beneficiary.**
- (iii) The port of landing is **Chennai**.
  
- II. Telegraphic and pencil quotations will not be accepted.
  
- III. Unsigned tenders shall be rejected.
  
- IV. The rates quoted should not exceed the maximum price, if any fixed by an order issued by the Central / State Government.
  
- V. Rates quoted in the tender (s) should be valid for acceptance for a period of six months from the last date fixed for the receipt of tenders. No permission will be granted to modify the rates until the negotiations are called for. Once the rate is accepted, the successful Tenderer shall not withdraw from the contract.
  
- VI. The cost of Comprehensive Annual Maintenance Contract (CAMC) will be added to the tender price for calculating L-1 price.
  
- VII. The State Bank of Hyderabad's Letter of Credit opening rate for a particular currency on the date of price bid opening will be considered for the purpose of price comparison.
  
- VIII. Tenders by vague and indefinite expression as "Subject to prior sale or subject to stocks being available" etc., are liable for rejection at the discretion of SVIMS. Penal clauses from the Tenderer whatsoever like interest on late payments of bill etc., will not be accepted.
  
- IX. Make, Country of Origin, Brand Name, Type Mark, Strength, Catalogue No. etc., should also be clearly mentioned against each item.

**09.** In exceptional circumstances, the purchaser may solicit the tenderer's consent to an extension of the period of tender validity. The request and the responses thereto shall be made in writing (or by cable or by telex). The earnest money deposit provided under clause 04 shall also be suitably extended. A tenderer may refuse the request without forfeiting its earnest money deposit. A tenderer granting the request will not be required nor permitted to modify its tender.

**10.** No tender may be withdrawn in the interval between the deadline for submission of tenders and the expiration of the period of tender validity specified by the tenderer in the tender form. Withdrawal of a tender during this interval may result in the Tenderer's forfeiture of its earnest money deposit.

**(Signature of the Tenderer with seal)**

**11.** The purchaser may waive any minor informality or non-conformity in a tender, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any tenderer.

**12. Evaluation and comparison of tenders.**

The purchaser's evaluation of a tender will include and take into account:

- i) in the case of goods manufactured indigenously or goods of foreign origin already located in India, excise duty, sales tax and other similar taxes and duties, which will be payable on the goods if a contract is awarded to the tenderer and;
- ii) in the case of a goods of foreign origin offered from abroad, customs duties and other similar import duties/taxes, which will be payable on the goods if the contract is awarded to the tenderer. The purchaser's evaluation of a tender will exclude and not take into account the additional features like training in India or abroad offered free or at an additional cost unless specifically asked for in the 'Technical Specifications'. The comparison shall be on Free Delivery At Site basis and commissioned at consignee's end. The purchaser's evaluation of tender will take into account, in addition to the tender price and the price of incidental services, the following factors, in the manner and to the extent indicated.
  - a) Cost of inland transportation and other costs within India incidental to delivery of the goods to their final destination at consignee's site,
  - b) delivery schedule offered in the tender,
  - c) deviations in payment schedule from that specified in the conditions of contract,
  - d) the cost of components, spare parts and service,
  - e) the cost of installation and commissioning,
  - f) the cost of guarantee/warranty and
  - g) the Performance and productivity of the equipment offered.

**13. SERVICING (CAMC) :**

- i) The Tenderer should give an undertaking that he will provide all the service required i.e. man power, parts, accessories, consumables etc., during warranty and AMC period (10 years) on a Rs. 10/- non-judicial stamp paper. The equipment must have servicing facilities in Andhra Pradesh or Karnataka or Tamilnadu with spares for replacements and repairs. The details of immediate availability of "after sales service" facility should be specifically mentioned in the quotations. The after sales service should be available for minimum period of 10 years. Institute's comprehensive maintenance charges are 4% or less CIF/FOR value per annum for all years.
- ii) The Tenderer has to enclose a letter from the Principal confirming that Principal will provide all the support for 10 years from the date of installation.
- iii) The supplier shall enter into Comprehensive Annual Maintenance Contract, 3 (three) months prior to the completion of Warranty Period. The CAMC will commence from the date of expiry of the Warranty Period.
- iv) The Purchaser reserves the rights to enter into Comprehensive Annual Maintenance Contract between the Purchaser and the Supplier for the period as mentioned after the completion of warranty period.

**(Signature of the Tenderer with seal)**

During Comprehensive AMC period institute will not bear any cost including customs duty, clearance, servicing charges and any type of other taxes. A.M.C., amount will be paid in two installments i.e. 50% as advance and 50% after successful completion of AMC.

During warranty / A.M.C. period, calls have to be attended within 24 hours, else company has to either extend the warranty / A.M.C. for 5 days for each day of delay and pay penalty as decided by the Institute. The call may be made by SVIMS through letter, courier, fax, mobile, phone or pager.

In the case of warranty / Comprehensive AMC, the period of procurement of spares which are available locally (in India) shall not exceed 3 days and which are not available locally (imported), shall not exceed 7 days. If it exceeds the permissible period, the company has to either extend the warranty/ Comprehensive AMC period by 5 days for each day of delay or pay penalty as decided by the Institute.

During the Annual Maintenance Contract you have to attend 4 Periodical Preventive Maintenance calls and unlimited number of breakdown calls.

- v) In the event of, non-functioning of the equipment exceeding the permissible period (95% uptime) , the tenderer has to either extend the period of warranty or maintenance service by 5 days for each day which is in excess of the prescribed period or pay penalty . If the equipment is unattended or exceeds the permissible period or if the equipment is going out of order frequently with short intervals, the Institute will impose penalty on the tenderer, and the decision of the Institute in this regard will be final.
- vi) The Comprehensive Maintenance Contract is nothing but extension of WARRANTY and includes all spares except consumables if any. The Tenderer has to necessarily enclose a list of consumables along with their prices. The list is to be enclosed in the technical offer and prices are to be enclosed in the financial offer. If no such list is enclosed, the institute will not buy any consumables during warranty period and the Tenderer has to supply them at free of cost as part of warranty. **All items, irrespective of the nature which are not included in the list of consumables shall be deemed to be covered under warranty.**
- vii) **The tenderer has to necessarily enclose the price list of all SPARE PARTS with validity period.**

(Signature of the Tenderer with seal)

**14. RECEIPT & INSTALLATION:**

- i) It shall be the responsibility of the Tenderer to fully cover all risks against direct damage and / or injury to our property and / or employees, as the case may be, occurring during installation, testing / tuning and commissioning of equipment to the extent caused by the negligence of your employees, agents or subcontractors. The Tenderer shall be responsible for disassembling of equipment / machines where necessary to facilitate their movement to the site and subsequent assembly and installation.
- ii) It shall be the responsibility of the Tenderer to supply the needed accessories (internal/external), spares for testing, tuning & installation of the main equipment at free of cost.
- iii) The Tenderer will depute specialized engineer / technician to supervise installation, check calibration of all concerned subsystems / components and conduct clinical testing and stabilize image quality, etc., before handing over the system to the satisfaction of SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES as fully commissioned.

Supply of equipment means Installation, testing, tuning and commissioning at site. No separate charges will be paid on this account.

**15. DEMONSTRATION:**

If necessary the firms should demonstrate their items of equipment at their own cost either at Sri Venkateswara Institute of Medical Sciences, Tirupati or at a nearby institute on specific requisition of this office within stipulated time. Failure to give demonstration may lead to rejection of the tender, at the discretion of SVIMS.

**16. SUPPLY:**

- (a) Supplies should strictly confirm to the specifications mentioned in the order.
- (b) The decision of the Director, Sri Venkateswara Institute of Medical Sciences, Tirupati shall be final regarding the acceptability of the equipment which is not confirming to the specification and other terms and conditions, supplied by the approved Tenderer and the Institute shall not give any reasons in writing or otherwise at any time after rejection of items.

**17. Force majeure clause.**

If the execution of the contract/supply order is delayed beyond the period stipulated in the contract/supply order as a result of outbreak or hostilities, declaration of an embargo or blockade, or fire, flood, acts of nature or any other contingency beyond the supplier's control due to act of God then Sri Venkateswara Institute of Medical Sciences, Tirupati may allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by Sri Venkateswara Institute of Medical Sciences, Tirupati , the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended.

**(Signature of the Tenderer and seal)**

- a) The successful bidder will advise, in the event of his having to resort to this clause by a registered letter duly certified by the Local chamber of Commerce or Statutory authorities, the beginning and end of the causes of the delay, within fifteen days of the occurrence and cessation of such force majeure conditions. In the event of delay lasting out of force majeure SVIMS will reserve the right to cancel the contract and provisions governing termination of contract, as stated in the bid documents will apply.
- b) For delays arising out of force majeure, the bidder will not claim extension in completion date for a period exceeding the period of delay attributable to the causes of force majeure and neither SVIMS nor the bidder shall be liable to pay extra costs provided it is mutually established that force majeure conditions did actually exist.
- c) If any of the Force majeure conditions exists in the place of operation of the bidder even at the time of submission of bid, he will categorically specify them in his bid and state whether they have been taken into consideration in their quotations.

**18.** Sri Venkateswara Institute of Medical Sciences, Tirupati reserves the right to give preference to the indigenous equipment over foreign equipment and go in for the indigenous equipment at any time before the acceptance of the tender.

**19.** Sri Venkateswara Institute of Medical Sciences, Tirupati shall have revocable right to purchase and to enter into parallel contract for the supply of any items mentioned in the tender schedule with any other supplier or firm at any rate at its discretion.

**20.** Sri Venkateswara Institute of Medical Sciences, Tirupati does not bind itself to accept the lowest offer or tender for any specific item or all items and reserves to itself the right to accept or reject any tender or all tenders without assigning any reason thereof.

**21.** Sri Venkateswara Institute of Medical Sciences, Tirupati reserves the right to cancel the tender for any or all equipment at any stage without assigning any reason thereof.

**22.** The termination and recovery of liquidated damages for failing to fulfill any of the terms and conditions of this contract, are as below:

In case the successful Tenderer back out after releasing the letter of intent or fails to deliver the equipment within the period, to be prescribed by the Director, Sri Venkateswara Institute of Medical Sciences, Tirupati at the time of placing orders, the tenderer will be liable to make good the loss sustained by the Institute in addition to the penalty as under.

- (a) SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES shall be entitled to purchase the equipment or its substitutes from any other supplier or firm without notice to the contractor and to recover the extra cost thus involved in such purchase from the contractor.

**(Signature of the Tenderer with seal)**

- (b) If the delivery is not effected by the due date, the Director, SVIMS, Tirupati will have the right to impose penalty i.e. first extension for two months or part thereof at the rate of 2% and second extension for an additional two months or part thereof at the rate of 3%. Penalty for extension beyond this for an additional two months or part thereof shall be 4%.
- (c) To cancel the contract or portion thereof.
- (d) To withhold the EMD and /or Security Deposit to the extent of the loss incurred by the Institute, in the event of action being taken as above and if it falls short, the Sri Venkateswara Institute of Medical Sciences, shall be at liberty to recover the balance amount from any of the bills pertaining to the tenderer or by instituting a Civil Suit. In this regard, the Contractor shall not be entitled to any gain.

**23.** No suit with regard to any matter whatsoever arising out of this contract shall be instituted in any Court save a Court of Competent Jurisdiction at Tirupati , Andhra Pradesh or at the place of business of the tenderer. Further no claim shall lie against the SVIMS in respect of interest on Earnest Money Deposit or Security Deposit.

**24.** The following documents are necessary. VAT Registration, PAN copy, Authorisation Certificate and IEC if importer.

#### **25. WARRANTY:**

The warranty is must and it starts from the date of installation only. **Warranty includes the main unit and all other items supplied.** When main unit or other items are found defective during warranty period, same needs to be rectified by repairing or replacing and make the system to good working condition at free of cost (including man power, parts needed, tax or duty) by the Tenderer. This warranty is subject to periodic preventive maintenance to be done by the Tenderer in consultation with the end-user.

#### **26. UPTIME GUARANTEE:**

The Tenderer has to keep the equipment at its utmost functional capacity i.e., 95% (ninety five percent) uptime in a calendar year. The period of non-functioning of the unit shall not exceed seven working days, and not more than three consecutive days at a time, in a year for a period of minimum ten years including warranty period.

##### **Downtime penalty Clause**

During the Guarantee / warranty period, desired uptime of 95% of 365 days (24 hrs) is to be maintained. If downtime exceeds 5% the Institute shall be entitled to impose penalty equal to an amount of 1% of the total cost of the equipment per day for the first seven days and shall be payable by the vendor which will be double on subsequent weeks along with extension of guarantee/warranty period by the excess down time period. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least TEN YEARS after handing over the unit to the Institute. If accessories/other attachment of the system are procured from the third party, then the vendor must produce cost of accessory/other attachment and the AMC from the third party separately along with the main offer and the third party will have to sign the AMC with the Institute if required.

**(Signature of the Tenderer with seal)**

In case, the equipment remains in non-working condition for more than 7days, a penalty of 2% of machine cost will be charged per day.

The principals or their agents are required to submit a **certificate** that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

**27.** Free software up-grades are to be provided during the period of WARRANTY and Comprehensive Maintenance Contract.

**28.** The Tenderer shall furnish an affidavit on Rs. 10/- non-judicial stamp paper stating that the firm has not been blacklisted by any government/Private institution and there is no vigilance/CBI/FEMA case pending against the firm/supplier.

**29.** Tenderers should clearly indicate the name of the Manufacturers/Beneficiary of the Letter of Credit, country of Origin, places of shipment.

#### **30. FALL CLAUSE:**

- A) If, at any time, during the said period, the tenderer reduce the said prices of such Stores/Equipment or sales such stores to any other person/organization/Institution at a price lower than the chargeable, he shall forthwith notify such reduction or sale to the Director, Sri Venkateswara Institute of Medical Sciences and the price payable for the Stores supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.
- B) Successful Tenderers should give pre-alert intimation prior to shipment notifying both the nominated clearing agents as well as the Institute.
- C) The tenderer shall furnish a list of organizations where the equipment, in question, has/have been supplied with the period during the last one year and performance certificate from such organization may also be provided.

#### **31. TRAINING & SERVICE MANUAL:**

- a) The tenderer has to train SVIMS Bio-Medical Engineer for minor problems.
- b) The Tenderer has to train SVIMS end user at site, if it is required.
- c) The Tenderer has to provide the service manual at free of cost with Schematic Diagram of the machine to be supplied.

#### **32. INSURANCE:**

The Tenderer has to cover insurance policy, sea borne insurance as per strike cargo clause (all risks) and peril as per Institute strike, riots, civil commotions, war risks as per Institute clause from works of the Tenderer to the final destination SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES, Tirupati, Andhra Pradesh, India including Installation, commissioning evidencing that the claims are payable in India. It will be the Tenderer responsibility to cover all risks against the direct damage and / or injury to our property and / or to our employees or to our agent, occurring during installation, testing, tuning and commissioning of the equipment.

**(Signature of the Tenderer with seal)**

### **33. DELIVERY:**

- a) The consignment shall be booked in the name of The Director, Sri Venkateswara Institute of Medical Sciences, Tirupati – 517 507, Andhra Pradesh, India.
- b) The Tenderer has to specify the delivery period. The demurrage, storage and any other charges will be claimed from the Tenderer for the consignment that reaches without proper dispatch documents or not endorsed property and not accompanied by packing list invoices, errors or omissions by descriptions, weights or measurements and for increased handling charges, due to improper packing etc.

### **34. PAYMENT TERMS**

Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner.

#### *A) Payment for Domestic Goods Or Foreign Origin Located Within India.*

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

##### *a) On delivery:*

90 % payment of the invoice amount shall be released on receipt of goods in good condition and upon the submission of the following documents:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Two copies of packing list identifying contents of each package;
- (iii) Inspection certificate issued by the nominated Inspection agency, if any.
- (iv) Insurance Certificate;
- (v) Certificate of origin.
- (vi) Manufacturer's/Supplier's warranty certificate

##### *b) On Acceptance:*

Balance 10 % payment shall be released subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise and satisfactory completion and commissioning to the satisfaction of SVIMS.

#### *B) Payment for Imported Goods:*

Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner, excluding Customs Duty.

*Irrevocable & non – transferable LC shall be opened by the institute. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.*

##### *a) On Shipment:*

Ninety (90) % of the net CIF price of the goods shipped shall be released upon submission of documents specified hereunder:

**(Signature of the Tenderer with seal)**

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Air-way Bill / Bill of Lading, marked freight pre paid and four copies of non-negotiable Air-way Bill / Bill of Lading;
- (iii) Four Copies of packing list identifying contents of each package;
- (iv) Insurance Certificate;
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection certificate issued by the nominated inspection agency, if applicable as per contract;
- (vii) Manufacturer's own factory inspection report and
- (viii) Certificate of origin issued by the chamber of commerce of the concerned country;
- (ix) Certificate that the equipment is not refurbished

*b) On Acceptance:*

Balance payment of Ten(10) % of net CIF price of goods shall be released after successful installation subject to recoveries, if any. The Installation report is to be signed by both HOD and BME.

All the above certificates, shipping documents, equipment brochures, manuals, product, data catalogue etc., as enumerated should be sent to us by courier service so as to arrive in advance of the equipment consignment.

**35. PACKING NORMS:**

- (a) All material must be strongly and securely packed in minimum cubic space for safe transportation / shipment in such a manner as to prevent damage and pilferage in transit, from the point of shipment to final destination.
- (b) Metal parts wherever necessary shall be well slushed with preventives to prevent rusting in transit, or due to delay in Indian Port before clearing.
- (c) The main equipment, accessories and documentation shall be separately packed and the cases / packages clearly marked accordingly.
- (d) All timber used in the packing of the materials is to be free from bark, insects and fungi.
- (e) Every case / package must contain a packing list in triplicate and order No., package No., Number of cases in the consignment. Description and quantity of each item packed shall be clearly shown in the packing list. The description and quantity of each item shall tally with that specified in the order, wherever applicable.

**(Signature of the Tenderer with seal)**

- (f) Each case shall be marked by paint in bold letters on Four sides indicating the following;
  - (i) THE DIRECTOR, SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES, TIRUPATI – 517 507, ANDHRA PRADESH, INDIA.
  - (ii) Case number, dimensions of the case gross and net weight in Kgs., and Country of Origin if any. (This information also should be communicated to us in advance).
- (g) All spares and accessories shall be separately crated and labeled as “**SPARE PARTS**”.

**36. CRYSTALISATION : for the purpose of calculation of CAMC charges, in case if the item is quoted in Foreign currency, the currency conversion rate prevailing as on the date of opening of Price Bid only will be considered for all the years i.e. the amount in INR is fixed, it will not change as per the fluctuation of foreign currency conversion rate.**

**37. OPENING OF TENDERS:**

Tenders will be opened in the presence of the Tenderers or their authorized representatives whoever chooses to be present at **2.30 p.m. on 01.06.2015** in the Committee Hall of the Institute. The Financial tenders will be opened after evaluation of technical tenders, at a later date.

**N.B. If the above date is declared as holiday, the next working day shall be the due date for receipt of tenders.**

**I / We read and accept the above Terms & Conditions.**

Place : \_\_\_\_\_

Date : \_\_\_\_\_ **(Signature of the Tenderer with seal)**

**PROFORMA OF FAITHFUL & SATISFACTORY PERFORMANCE AGREEMENT**

AN AGREEMENT made this the ..... Day of ..... Two thousand ..... Between M/s. .... herein after called the Contractors, which expression shall unless excluded by or repugnant to the subject or context, include their successors, representatives, heirs, executors and administrators of the one part and the Director, Sri Venkateswara Institute of Medical Sciences, T.T.D., Tirupati (which expression shall unless by or repugnant to the subject or context, include his successors in office and assigns) of the other part.

Whereas quotation dated ..... tendered by the contractor has been accepted by Sri Venkateswara Institute of Medical Sciences, TTD., Tirupati and LETTER OF INTENT No. ..... Dt. ..... (herein after referred to as the said order, which expression shall include any amendment thereof, or additions or modifications thereto) has accordingly issued in favour of the contractors, setting forth in detail the specifications, quantity, price, delivery terms and the special conditions governing the supply.

**AN AGREEMENT WITNESSETH AS FOLLOWS:**

1. The contractors hereby agree to supply the stores strictly in accordance with the specification and as per approved sample(s) and all other terms and special conditions stipulated in the said order.
2. The contractors hereby further agree that the said order, together with the schedule, instructions and all special conditions shall be deemed to form part of this agreement as though separately set out herein and are included in the expression "contract" wherever used in connection with the said order.
3. The contractors agree that in all matters of disputes as regards the condition of supplies, after arrival at destination the decision of the Director, S.V. Institute of Medical Sciences, TTD., Tirupati shall be final and binding on the parties hereto.
4. The delivery period stipulated in the said order shall be deemed to be the essence of contract and the contractors hereby agree that the delivery period/date as mentioned in the said order, is guaranteed and in the event of S.V. Institute of Medical Sciences, TTD., Tirupati agreeing to accept supplies for such installment or for the entire quantity where no installment supply is stipulated, the contractors agree to pay to the S.V. Institute of Medical Sciences, TTD., Tirupati liquidated damages as described in the tender document without prejudice to the right of the S.V. Institute of Medical Sciences, TTD., Tirupati to exercise option under the said special condition for availing remedies available to the S.V. Institute of Medical Sciences, TTD., Tirupati under clause 5 hereof.
5. It is hereby further agreed between the parties hereto that failure on the part of the contractors to make supplies whether of a portion of the material or the entire quantity as per the terms of the said order, non-performance or non-supply in time regularly, or supply material which does not confirm to specifications, quality prescribed, or the samples approved, or which is found defective in any other way, or for the breach of any of the conditions stipulated either in the said order or in this agreement shall entitle enforcement of one or more of the following:
  - i) Cancellation of the said order in part or in whole.

- ii) Forfeiture or adjustment of Earnest Money and/or security deposit (which may be in the form of bank guarantee or otherwise) in whole or to the extent considered necessary by the S.V. Institute of Medical Sciences, TTD., Tirupati and
  - iii) Recovery of extra cost, if any, incurred by S.V. Institute of Medical Sciences, TTD., Tirupati in procuring the materials from other sources by way of repurchase at the risk of expense of the contractors.
6. Whereas the contractor has desired the S.V.Institute of Medical Sciences, TTD., Tirupati to arrange 90% payment through their bank on presentation to the bankers copies of documents required as per the Purchase Order and the contractor binds himself for the description of the goods dispatched to correspond totally to the goods quoted. The balance 10% shall be paid after acceptance of the goods.
7. The contractor further binds himself for commissioning of equipment in the premises of the S.V.Institute of Medical Sciences, TTD., Tirupati.
8. Irrespective of the above payments, the contractor binds himself for satisfactory service and supply of necessary spares during the period of warranty.
9. Whenever under the terms of the said order, any sum of money is recoverable from and payable by the contractors, the S.V.Institute of Medical Sciences, TTD., Tirupati shall be entitled to recover such sum by appropriation, in part or whole, the Security Deposit deposited by the contractors. In the event of the security being insufficient or if no security has been taken from the contractors, then the balance or the total sum recoverable, as the case may be, shall be deducted from any sum then due, or which at any time thereafter may become due to the contractors under the said order or any other contract with the S.V. Institute of Medical Sciences, TTD., Tirupati.
10. On due fulfillment of terms and conditions of this agreement by the contractors, the amount of Security Deposit herein before mentioned will be refunded after expiry of the guarantee / warranty period.
11. The contractor shall inform SVIMS about the change of local agent in India, immediately, if any such thing happens. In such a event it shall be the responsibility of the contractor / manufacturer / principal to see that the new agent agrees for all the terms and conditions as mentioned in the purchase order especially with reference to free supplies, warranty period and AMC charges.
12. The contractors hereby further agree that no suit in regard to any matter whatsoever arising under or by virtue of this agreement shall be instituted in any court save a court of competent jurisdiction at Tirupati , Andhra Pradesh, India or at the place of business from where the tender is quoted by the contractor.
13. CLEARANCE :  
Demurrage, storage and any other charges will be claimed from you or from your principal for all shipments that reach us without proper dispatch documents or not endorsed properly and not accompanied by packing list, invoices, errors or omissions by descriptions, weights or measurements and for increased handling charges, due to improper packing.

**14. RECEIPT & INSTALLATION OF EQUIPMENT :**

- a) should any deficiencies be established after receipt of the equipment, these must be made good by despatch under "No Charge" invoice. Any complaints in regard to materials will be notified within 90 days of receipt of consignment in our premises and any defective materials will be returned at your risk and cost and you should replace them with new goods/materials and deliver the same at free of cost including insurance, freight and customs duty. The port of entry shall be Chennai only.
- b) It shall be your responsibility to fully cover all risks against direct damage and/or injury to our property and/or employees occurring during installation, testing/tuning and commissioning of equipment to the extent caused by the negligence of your employees, agents or sub contractors. You shall be responsible for this disassembling of equipments/machines, where necessary to facilitate their movement to the site and subsequent assembling and installation.

**15. TRAINING FACILITY:**

The contractor shall provide training as per the Purchase Order.

**16. MAINTENANCE & PENALTY CLAUSE:**

- a) All the breakdowns shall be attended within 24 hours. The period of procurement of spares which are available locally, shall not exceed 3 days and which are not available locally, shall not exceed 7 days.
- b) In the event, break down call is not attended within 24 hrs. or non-functioning of equipment exceeds the permissible period as mentioned in the Purchase Order, you have to extend the period of warranty / AMC period by 5 days for every one single day or you have to pay suitable compensation as decided by SVIMS. If the equipment is unattended within 24 hours / equipment is down continuously for 7 days or if the equipment is going out of order frequently with short intervals, the institute will withhold the security deposit and if it is not sufficient the excess amount will be claimed from you, and the decision of the institute will be final.

**17. WARRANTY:**

The main equipment and other accessories supplied carries a warranty of 05 years from the date of installation.

**18. AMC CHARGES :**

- a) you have agreed to provide post warranty comprehensive Annual Maintenance Contract for 05 years at the rates specified in the Purchase Order.
- b) The maintenance contract will be applicable for a period of 05 years after expiry of warranty period.
- c) During AMC you have to attend 4 nos. of maintenance calls and unlimited no. of break down calls.
- d) The AMC amount will be paid in two installments i.e. 50 % in advance and balance after successful completion of the AMC period.
- e) During comprehensive AMC period you have to bear the customs duty. No other costs will be borne by SVIMS including Service Tax.
- f) It is the responsibility of the tenderer for getting the servicing from the original manufacturer for third party items during warranty and AMC period.

**19. POST SALE PRODUCT SUPPORT:**

**a)** you shall continue to support the equipment supplied by making available spare parts and assemblies of the equipment for a period of 10 years from the date of commissioning.

**b)** In the event of change of local agent by your principal, either your principle or his new agent has to continue the post sale services as per terms and conditions of the Purchase Order.

**c)** Should your principle decide to discontinue the product, for any reasons whatsoever, adequate notice shall be given to us to enable us to procure the requisite life time spares.

20. During warranty replacements, Institute will not bear any cost including customs duty.

**21. CRYSTALISATION :** for the purpose of calculation of CAMC charges, in case if the item is quoted in Foreign currency, the currency conversion rate prevailing as on the date of opening of Price Bid only will be considered for all the years i.e. the amount in INR is fixed, it will not change as per the fluctuation of foreign currency conversion rate.

IN WITNESS WHEREOF the Contractors have here up to set their hand and the S.V. Institute of Medical Sciences, TTD., Tirupati has caused .....  
For and on his behalf to set his hand hereunto, the day and year first above written.

Manufacturer's Signature

Contractor's Signature

Signed by the said contractors  
In the presence of:

1<sup>st</sup> Witness  
Address and occupation

2<sup>nd</sup> Witness  
Address and occupation

Signed by Dr. B. Vengamma, Director, the Sri Venkateswara Institute of Medical Sciences, TTD., Tirupati for and or behalf and by the order and direction of the Governing Council of the Sri Venkateswara Institute of Medical Sciences, Tirumala Tirupati Devasthanams, Tirupati, Andhra Pradesh.

Signature of the Director-cum-V.C  
Sri Venkateswara Institute of Medical  
Sciences, TTD., Tirupati.

**PROFORMA OF PERFORMANCE SECURITY FORM (BANK GUARANTEE)**

To  
The Director , Sri Venkateswara Institute of Medical Sciences

Whereas..... (name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract No.....dated..... to supply (description of goods and services (hereinafter called "the contract"). And whereas it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a recognized bank for the sum specified therein as security for compliance with its obligations in accordance with the contract.

And whereas we have agreed to give the supplier such a bank guarantee.

Now therefore we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of .....(amount of the guarantee in words and figures), such sum being payable in the types and proportions of currencies in which the contract price is payable, and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the date of issue of the 'Acceptance Certificate' issued by the purchaser's representative.

Signature and seal of the Guarantor

Place

Date



***PRICE SCHEDULE*****A) PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA**

1	2	3	4	5							6
Schedule	Brief Description Of Goods	Country Of Origin	Quantity (Nos.)	Price per unit (Rs.)							Total Price at Purchaser's Site (Rs.)
				Ex-factory/ Ex-warehouse /Ex-showroom /Off-the shelf	Excise Duty (if any) (% & value)	Sales Tax / CST / VAT/ CENVAT (if any) (% & value)	Packing and forwarding Charges	Inland Transportation, Insurance loading / unloading and Incidental costs till Purchaser's site	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Purchaser's site	Unit Price at Purchaser's Site	
				(a)	(b)	(c)		(e)	(f)	(g) =a+b+c+d+e+f	4x5(g)

Total Tender price in Rupees : \_\_\_\_\_

In Words : \_\_\_\_\_

**Note :-**

If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.

The charges for Annual CMC after warranty shall be quoted separately (Price Schedule C)

Signature of Tenderer \_\_\_\_\_

Name \_\_\_\_\_

Business Address \_\_\_\_\_

Seal of the Tenderer \_\_\_\_\_

Place : \_\_\_\_\_

Date : \_\_\_\_\_

***PRICE SCHEDULE***  
**B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD**

1	2	3	4	5 Price per unit (Currency)					6
Schedule	Brief Description Of Goods	Country Of Origin	Quantity (Nos.)	FOB price at port / airport of Loading  (a)	CIF price at port / airport of entry  (b)	Loading / Unloading, Inland transportation, Insurance and Incidental costs till Purchaser's site  (c)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Purchaser's site  (d)	Unit Price at Purchaser's site  $e = a+b+c+d$	Total Price at Purchaser's site  $4 \times 5(e)$

Total Tender price in foreign currency \_\_\_\_\_  
 In Words : \_\_\_\_\_

Note :-

If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.

The charges for Annual CMC after warranty shall be quoted separately (Price Schedule C).

The Tenderer will be fully responsible for the safe arrival of the goods at destination (Purchaser's site) in good condition as per INCOTERMS, if applicable

Custom Duty with CDEC & NMIC if applicable \_\_\_% of CIF value

Signature of Tenderer \_\_\_\_\_  
 Name \_\_\_\_\_  
 Business Address \_\_\_\_\_  
 Seal of the Tenderer \_\_\_\_\_

Place : \_\_\_\_\_

Date : \_\_\_\_\_

**SVIMS  
EMBLEM**

**SRI VENKATESWARA INSTITUTE OF MEDICAL SCIENCES  
TIRUPATI  
(TIRUMALA TIRUPATI DEVASTHANAMS)**

**LORD  
BALAJI**

Phone Nos. – 0877-2287777 Extn. – 2223/2224

Fax No. 0877-2286803/2286116  
E-mail : [purchasedept@svims.gov.in](mailto:purchasedept@svims.gov.in)  
[svimshosp@yahoo.com](mailto:svimshosp@yahoo.com)

**TENDER NOTICE**

Sri Venkateswara Institute of Medical Sciences, Tirupati invites sealed tenders under two bid system from manufacturers and distributors for supply of the following equipment :

SL NO	NAME OF THE EQUIPMENT	DEPT.	QTY	TENDER DOC. COST IN RS.	EMD AMOUNT
1.	Heart Lung Machine inclusive of Heater Cooler Unit	C.T. Surgery	01	3000/-	1,37,500/-
2.	TCM Haemotherm	C.T. Surgery	02	3000/-	1,25,000/-
3.	Defibrillators	C.T. Surgery	02	3000/-	32,500/-
4.	Surgical Diathermy	Surg. G.E & Sur.Oncology	02	3000/-	1,00,000/-
5.	Surgical Diathermy	Urology	01	3000/-	50,000/-
6.	Dark field Microscope	Microbiology	01	3000/-	25,000/-
7.	High Speed Ventilator	Anaesthesia	01	3000/-	25,000/-
8.	800 mA High Frequency x-ray machine with Image Intensifier TV	Radiology	01	3000/-	1,12,500/-
9.	Mobile X-ray machine	Radiology	04	3000/-	30,000/-
10.	O.T. Tables	S.P Medical college (W)	06	3000/-	1,50,000/-
11.	Placement of Cardiac Reader for measuring Troponin-T, Troponin-I, D-Dimer, CKMD, Mioglobin, NTproBNP, CRP etc., under reagent rental agreement to the dept. of Cardiology.				
12.	Placement of Elisa processor for HIV, HBsAg and HCV., under reagent rental agreement to the dept. of Microbiology.				
13.	Placement of Nephelometer for CRP, RA, ASO, C3 & C4 under reagent rental agreement to the dept. of Microbiology.				

Tender forms with details can be had from the Assistant Director (P) by paying the above mentioned cost by way of Demand Draft or can be downloaded from this website and the tender cost is to be enclosed in the Technical bid along with EMD. The Demand draft should be in favour of "The Director, Sri Venkateswara Institute of Medical Sciences, Tirupati". The sealed tenders shall invariably be sent to the Assistant Director (P), SVIMS, Tirupati – 517 507, so as to reach on or before **1.00 pm. on 01.06.2015**. Tenders will be opened at **2.30 p.m. on 01.06.2015**.

The Director reserves the right to reject any or all tenders without assigning any reason whatsoever for any or all equipment.

**Roc. No. P1/19/e-procurement/PD/SVIMS/10, dt. 29.04.2015**

**DIRECTOR-CUM-V.C**

## **(SL. NO.1) SPECIFICATIONS OF HEART LUNG MACHINE INCLUSIVE OF HEATER COOLER UNIT**

### **A) HEART LUNG MACHINE**

1. 4 – pump Console : 03 single roller pump modules and 01 twin roller pump module should be provided.
2. Twin pump module should have selectable ratio of Blood & Cardioplegia from 1:1 to 1:20.
3. Console should be compatible to integrate a centrifugal pump module.
4. Air – Oxygen blender with hoses and flow meter should be provided.
5. Each pump should have programmable modes of operation as :  
Arterial, Arterial Pulsatile, Cardioplegia, Slave – 1, Slave – 2, Sucker, Auxiliary & free.
6. Each individual roller pump should be capable of running on 24 volts supply with a transformer in the console.
7. The unit should be supplied with a battery backup for all the pumps, all safety systems and accessories for a minimum of 90 minutes.
8. The console should have a compact base mount for the pump heads together with pole and handles and standard safety features as bubble sensor, level sensor and pressure sensors.
9. Level and bubble detector should be supplied with the unit.
10. Internal pulsatile should be integrated with the system as a safety feature and it must have optional facility for External pulsatile.
11. The unit should have following monitors : pressure monitor (for 04 pressure displays), Time Monitor (03 resettable timers with 01 real time display), Temperature monitor (04 temperature displays), Cardioplegia delivery (total volume, actual volume, time and pressure display), Temperature controller for Heater cooler unit.
12. Air – oxygen Blender with hoses and Flow meter should be provided.
13. To work with power supply of 220-240V / 50-60Hz.
14. In case of any error, error message should be displayed by name along with audible alarm.
15. Should have flexible LED lamp.

### **B) HEATER COOLER UNIT**

#### **A MODERN TWO – CIRCUIT HEATING-COOLING SYSTEM**

Two Tank & Two Circuit system:

1<sup>st</sup> circuit should be for blood heat exchanger of the oxygenator and/or blanket (patient circuit).

2<sup>nd</sup> circuit should be for the cardioplegia heat exchanger (Cardioplegia circuit)

Water temperature should be regulated independently

Main and cardioplegia ice should be separated in two tanks to ensure fast temperature adjustments of the two circuits and allows the availability of cold cardioplegia.

The water temperature settings should be adjustable between 1 deg. C and 40.5 deg. C.

#### **NEW UNIQUE MODERN DESIGN CONCEPT**

Should be modern design and the outer housing should be in polished stainless steel.

Should be easy to manoeuvre (very good running, 180 degrees turnable wheels with foot-lever operated brakes).

#### **USER INTERFACE – CONTROL UNIT**

Should have full graphic touch screen display with logical intuitive menus

Should have clear symbols and large figures.

The active navigation buttons should be visible all the time

All functionalities should be controlled through the touch screen and/or with a rotary knob

#### **USER INTERFACE – CONNECTIONS**

The data of the user interface should be transferable to the device via CAN.

The control Unit should be individually positioned on the machine or the mast of any heart-lung machine. No second remote control is necessary.

There should be provision to connect two external temperature sensors to the cooling warming therapy units and to the HCU device.

#### **FAST SWITCHING: COOLING – HEATING – COOLING**

The interior design should include an automatically controlled mixing valve.

Only the circulated water should be heated (not the tank water).

The rapid switching of temperatures should be applicable to both, the patient water circuit and the cardioplegia water circuit.

#### **EFFECTIVE CLEANING AND DISINFECTING**

The machine should have a permanent UV-light for disinfect internal water tubing and hoses.

## **(SL. NO. 2) SPECIFICATIONS OF TCM HAEMOTHERM (Heater Cooler Unit)**

### **A MODERN TWO – CIRCUIT HEATING-COOLING SYSTEM**

Two Tank & Two Circuit system:

1<sup>st</sup> circuit should be for blood heat exchanger of the oxygenator and/or blanket (patient circuit).

2<sup>nd</sup> circuit should be for the cardioplegia heat exchanger (Cardioplegia circuit)

Water temperature should be regulated independently

Main and cardioplegia ice should be separated in two tanks to ensure fast temperature adjustments of the two circuits and allows the availability of cold cardioplegia.

The water temperature settings should be adjustable between 1 deg. C and 40.5 deg. C.

### **NEW UNIQUE MODERN DESIGN CONCEPT**

Should be modern design and the outer housing should be in polished stainless steel.

Should be easy to manoeuvre (very good running, 180 degrees turnable wheels with foot-lever operated brakes).

### **USER INTERFACE – CONTROL UNIT**

Should have full graphic touch screen display with logical intuitive menus

Should have clear symbols and large figures.

The active navigation buttons should be visible all the time

All functionalities should be controlled through the touch screen and/or with a rotary knob

### **USER INTERFACE – CONNECTIONS**

The data of the user interface should be transferable to the device via CAN.

The control Unit should be individually positioned on the machine or the mast of any heart-lung machine.

No second remote control is necessary.

There should be provision to connect two external temperature sensors to the cooling warming therapy units and to the HCU device.

### **FAST SWITCHING: COOLING – HEATING – COOLING**

The interior design should include an automatically controlled mixing valve.

Only the circulated water should be heated (not the tank water).

The rapid switching of temperatures should be applicable to both, the patient water circuit and the cardioplegia water circuit.

### **EFFECTIVE CLEANING AND DISINFECTING**

The machine should have a permanent UV-light for disinfect internal water tubing and hoses.

\*\*\*\*\*

## **(SL. NO.3) DEFIBRILLATOR with External& Internal Paddles & External Pacemaker**

### **1. Description of Function**

1.1 Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.

### **2. Operational Requirements**

- 2.1 Defibrillator should be Bi Phasic
- 2.2 Should monitor ECG and display them
- 2.3 Should print the ECG on thermal papers
- 2.4 Should work on Manual and Automated External Defibrillation (AED) mode. Manual selection upto 200 J.
- 2.5 Should be capable of doing synchronized cardio version
- 2.6 Can be operated from mains as well as battery

### **3. Technical Specifications**

- 3.1 Should be a Low Energy Biphasic defibrillator monitor with Recorder, having capability to arrest all arrhythmia with 200 Joules and more
- 3.2 Should monitor ECG through paddles, pads and monitoring electrodes and Defibrillate through pads and paddles.
- 3.3 Should compensate for body impedance for a range of 25 to 1500hms
- 3.4 Should have a built in 50mm strip printer
- 3.5 Should have charging time of less than 5 seconds for maximum energy.
- 3.6 Should have bright display for viewing messages and ECG waveform of 4 seconds
- 3.7 Should have external & internal paddles with paddles contact indicator – for good paddle contact. Both Adult and pediatric paddles should be available.
- 3.8 Should have event summary facility for recording and printing at least 250 events and 50 waveforms.(Optional)
- 3.9 Should have a battery capable of usage for at least 90 minutes or 40 discharges.
- 3.10 Should be capable of printing Reports on Event summary, configuration, self test, battery capacity etc
- 3.11 Should have facility for self test/check before usage and set up function
- 3.12 Should have SP02, NIBP and non invasive pacing facility
- 3.13 Should be capable of delivering energy in increments of 1-2 joules up to 30J and increments of maximum 50J thereafter.

### **4. System Configuration Accessories, spares and consumables**

- 4.1 Defibrillator -01
- 4.2 \* Paddles Adult External & Internal (pairs) -01 Each
- 4.3 \* Paddles –Paediatrics External & Internal (pairs) -01 Each
- 4.4 Patient cables -02
- 4.5 ECG Rolls -50
- 4.6 External Pacemaker-01

### **5. Environmental factors**

- 5.1 The unit shall be capable of operating continuously in ambient temperature of 10 - 40deg C and relative humidity of 15-90%
- 5.2 The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90%
- 5.3 Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

## 6. Power Supply

- 6.1 Power input to be 180-270VAC, 50-60 Hz
- 6.2 Reset table over current breaker shall be fitted for protection
- 6.3 Should have a battery capable of usage for at least 90 minutes

## 7. Standards, Safety and Training

- 7.1 Should be FDA or CE or UL or BIS approved product
- 7.2 Electrical safety conforms to standards for electrical safety
  - IEC-60601-1 General Requirements and IEC-60601-2-25
  - Safety of Electro cardiograms. (OR EQUIVALENT BIS Standard)
- 7.3 Drop Test-Withstands 1 meter drop to any edge, corner or surface.
- 7.4 Should conform to international test protocols on exposure to shock forces and to vibration forces. The standard should be documented.
- 7.5 Should meet IEC 529 Level-2 (IP2X) for enclosure protection solid foreign object ingress.
- 7.6 Should meet IEC 529 Level 3 (IP3X)(spraying water) for enclosure protection , water ingress.

## 8. Documentation

- 8.1 User manual in English
- 8.2 Service manual in English
- 8.3 Certificate of calibration and inspection.
- 8.4 List of important spare parts and accessories with their part number and costing
- 8.5 List of Equipments available for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual.
- 8.6 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.

**(SL. NO. 4) Specifications for Electro Surgical Unit (ESU)  
with Vessel Sealing System**

**1 Description of Function**

SI	Name
1.1	ESUs are used for surgical cutting and for controlling bleeding by causing coagulation (hemostasis) at the surgical site. They deliver high-frequency electrical current through an active electrode tip, causing desiccation, vaporization, or charring by resistive heating in the target tissue.

**2 Operational Requirements**

SI	Name
2.1	Microprocessor/Microcontroller technology

**3 Technical Specifications**

SI	Name
3.1	Integrated system with 300W output generator for monopolar, bipolar and vessel sealing system for open and laparoscopic surgery
3.2	Compatible with Argon Plasma Coagulator
3.3	Should provide monopolar output for cut, coagulation (fulguration & spray) & blend in multiple levels
3.4	Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation.
3.5	Activation by foot switch and hand switch for all the modes.
3.6	Activation of bipolar by foot switch and automatic start/stop system
3.7	Capable of sealing vessels up to 7 mm diameter
3.8	Auto diagnosis on switching on and during working to continuously monitor all parameters
3.9	Automatic stoppage of output in case of malfunction with acoustic and visual signal with display of error code.
3.10	Output powers adjustable automatically or manually from the control panel.
3.11	Programmable memory for output settings
3.12	Simultaneous access to mono and bipolar by 2 or more users
3.13	Should be usable with laparoscopic monopolar and bipolar instruments, for which programmes and accessories must be available
3.14	System for neutral plate safety by continuous monitoring of contact quality and connection
3.15	System for monitoring and control of leakage current
3.16	Frequency Leakage on the patient should be less than 10 micro Amp.

**4 System Configuration Accessories, spares and consumables**

SI	Name
4.1	System as specified
4.2	The accessories should include (a) trolley, (b) mains cable with power plug for standard Indian sockets, (c) foot switches for different outputs, (d) reusable and single use neutral electrode for adults and children along with cable for neutral electrode and fixation device wherever required, (e) sterilisable and disposable electrode handle with and without finger switch with cable for electrode handle, (f) set of electrodes (long and short) with electrode container with holder, (g) tip cleaner, (h) bipolar forceps with cable, (i) cable for connecting to standard mono polar and bipolar laparoscopic instruments,  (j) dedicated instruments for open and laparoscopic monopolar, bipolar and vessel sealing use. <i>The accessories and their quantity will be chosen from among the ones listed above as well as those listed at 4.4 depending upon actual requirement.</i>

4.3	The system should be capable of accepting standard accessories of major international brands, which should be specified and for which suitable adaptor, if required, is to be quoted
4.4	The codes and rates of all possible individual accessories should be quoted separately with clear mention of period of validity of rates

## 5 Environmental Factors

SI	Name
5.1	The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
5.2	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%

## 6 Power Supply

SI	Name
6.1	Power input to be 220-240VAC, 50Hz fitted with Indian power-plug
6.2	Electronic Voltage corrector/stabilizer of appropriate ratings meeting BIS Standards/Specifications.( Input 160-260 V and output 220-240 V and 50 Hz)

## 7 Standards & Safety

SI	Name
7.1	Should be FDA , CE, UL or BIS approved product.
7.2	Manufacturer and Supplier should have ISO certification for quality standards.
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements (or equivalent BIS Standard)
7.4	Shall meet internationally recognised standard for Electro Magnetic Compatibility (EMC) for electomedical equipment: IEC-60601-1-2 :latest edition Or Equivalent BIS) or should comply with 89/366/EEC; EMC-directive as amended
7.5	Certified to be compliant with IEC 60601-2-2 Medical Electrical Equipment Part 2-2: Particular requirements for the safety of High Frequency Surgical Equipments: latest edition

## 8 Training

SI	Name
8.1	Comprehensive training for staff of user department and support services till familiarity with the system.

## 9 Warranty & Service

SI	Name
9.1	Comprehensive warranty for 5 years and 5 years Comprehensive Maintenance Service after warranty. The cost of CMC must be quoted in the price bid.
9.2	Percentage of uptime guarantee of the equipment during warranty and CMC period for which commitment is to be given must be specified with acceptance of applicable penalty clauses in case of failure to do so.
9.3	After sales service must be provided in the city of installation. In situations requiring service/repair of the unit outside the city of installation, the expenditure on account of this will have to be borne by the supplier

## 10 Documentation

SI	Name
10.1	Product Literature in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable
10.2	Statement of compliance with tender specifications with clear and unambiguous links to relevant portions of product literature/authentic document, which should be highlighted. Alternatives provided for noncompliant specifications with justification must be described in detail with supporting literature.
10.3	Certificate of compliance with standards and approvals stated above
10.4	Certificate of manufacturer/principal regarding authorisation of service facility provided by the supplier
10.5	List of Equipment available in the Service Centre for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual.

10.6	List of important spare parts and accessories, which are required for maintenance and repair, with their part number and costing.
10.7	Terms and conditions of warranty and CMC including schedules of visit by service personnel with check list of services to be carried out
10.8	Commitment for supply of log book with check list for daily, weekly, monthly and quarterly preventive maintenance with contact details of service personnel along with the equipment. The job description of the hospital technician and company service engineer should be clearly spelt out in the log book.
10.9	List of users of quoted model with performance certificate from Govt hospitals

## (SL. NO. 5) SPECIFICATIONS FOR DIATHERMY MACHINE

1. Integrated system with 300W output generator for monopolar, bipolar and vessel sealing system for open and laparoscopic surgery.
2. Argon plasma coagulator as a standard feature.
3. Should provide monopolar output for cut, coagulation (fulguration and spray) & blend in multiple levels.
4. Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation.
5. Activation by foot switch and hand switch for all the modes.
6. Activation of bipolar by foot switch and automatic start/stop system.
7. Capable of sealing vessels up to 07mm diameter.
8. Auto diagnosis on switching on and during working to continuously monitor all parameters.
9. Automatic stoppage of output in case of malfunction with acoustic and visual signal with display of error code.
10. Output powers adjustable automatically or manually from the control panel.
11. Programmable memory for output settings.
12. Simultaneous access to mono and bipolar by 02 or more users.
13. Should be usable with laparoscopic monopolar and bipolar instruments, for which programmes and accessories must be available.
14. System for neutral plate safety by continuous monitoring of contact quality and connection.
15. System for monitoring and control of leakage current.
16. Frequency leakage on the patient should be less than 10 micro Amp.
17. Underwater cutting and coagulation facility both bipolar and monopolar – to be useful for transurethral resection of prostate and bladder tumours.

**(SL.NO.6) SPECIFICATIONS FOR DARK FIELD MICROSCOPE**

- |                        |   |
|------------------------|---|
| 1. Stand               | Rugged and sturdy stand with the following features :<br>(a) Built-in stabilized electronic power supply for 12V/50W Halogen illumination, suitable for 230V 50Hz power supply.<br>(b) Co-axial coarse and fine harmonic drive focusing knobs, low positioned for convenient operation.<br>(c) Built-in filter 6 position filterwheel and grey filter set containing 3 grey filters 0.015, 0.06 and 0.25.<br>(d) 6 position reflector turret for fluorescence filter sets.<br>(e) Built-in variable field diaphragm for transmitted light illumination. |
| 2. Nosepiece           | 6x revolving nosepiece (capable of accommodating upto 6 objective) mounted on ball bearing with highly precise click stops and should have slots for upgradation for DIC.   |
| 3. Mechanical Stage    | Ball bearing mounted X-Y mechanical with low positioned co-axial knobs, right handed, with scanning area of 75x50mm. The stage should be coated with anodized surface.  |
| 4. Binocular Phototube | Binocular Phototube should be of infinite tube optics. The eyepiece tubes should be ergonomically designed with 20° inclination. The binocular phototube should generate images of upright and unreversed type. The eyepiece tubes should be tilttable upwards / downwards for convenient positioning. The interpupillary distance should be adjustable between 55-75 mm.   |
| 5. Illumination        | It should be with Koehler illumination technique with 12V/50W halogen lamp. The illumination control knob and ON/OFF switch should be low positioned for convenient operation.  |
| 6. Condenser           | Abbe Condenser 0.9/1.25 for bright field, dark field and phase contrast. Also, Microscope should be quoted with dedicated Dark field attachment for 100x objective and suitable objective with iris.  |
| 7. Objectives          | The microscope should be offered with high contrast Plan Achromatic Objectives with infinity colour corrected optics. The magnification/numerical aperture of the objectives should be : 5x / 0.12, 10x / 0.25 phase, 40x / 0.65 phase and 100x / 1.25 oil.   |
| 8. Eyepieces           | Wide field focusing eyepieces with minimum 23mm field of view with soft rubber soft eyecups and is suitable for spectacle wearers. It should be marked with ± 5 diopter settings. The eyepieces should be suitable for graticule insertion.   |

Digital SLR Camera attachment 12.0 megapixels or more should be quoted with suitable adapters and image acquisition system.

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## **(SL. NO. 7) SPECIFICATIONS OF HIGH SPEED VENTILATOR**

**Alarms:**

- Pause Pressure 0-80 cmH<sub>2</sub>O
- Peak Pressure 0-80 cmH<sub>2</sub>O

**System Alarms :**

- Power Failure if electrical power drops below 95 VAC
- System Failure if microprocessor fails
- Gas supply failure if air/oxygen supply fails
- FiO<sub>2</sub> if oxygen concentration changes 5% above or below set value
- Add water if water supply fails

**Set Parameters :****System Alarms**

- |                      |                |
|----------------------|----------------|
| • Frequency          | 12-150 CPM     |
| • Inspiratory Time   | 20-60%         |
| • FiO <sub>2</sub>   | 21-100% Oxygen |
| • Driving Pressure   | 5-40 PSI       |
| • Auxiliary Gas Flow | 0-70 lpm       |
| • Humidification     | 0-100%         |

**Displayed & Measured Settings :**    **System Alarms**

- Frequency
- Inspiratory Time
- Pause Pressure
- FiO<sub>2</sub>
- TV/MV
- PIP/MAP/EEP
- Humidification
- Bypass Flow Rate

**Dimensions :**

- WxHxD 50cm x 10cm x 34cm
- Weight 13.2 Kgs

**Connections:**

- Air Supply 21% Medical Grade Air 40-90 PSI
- Oxygen Supply 100% Medical Grade Oxygen 40-90 PSI
- Power Supply 100-240 VAC
- Power Consumption 80 VAC
- Type Universal High Frequency Jet Ventilator

**Features :-**

- Standard one year warranty (optional two year warranty at additional cost)
- Large display showing patient parameters, graphical wave form, pressure levels and limits
- Delivered Tidal Volume and Minute Volume Displayed
- Adjustable bypass flow allows pre oxygenation of patients before surgery and auxiliary ventilation.
- Alpha-Dial allows quick and flexible access to change parameter settings
- Improved safety and reliability with microprocessor control
- PIP & PP alarm limit / high pressure cutoff
- MAP, EEP, PIP, PP pressure monitoring displayed on screen for easy viewing

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**(SL. NO. 8) SPECIFICATIONS OF 800 MA HIGH FREQUENCY X-RAY  
MACHINE WITH IMAGE INTENSIFIER TV**

**1. Technical Specification**

The high power R/F system should have a High Frequency inverter type generator and remote controlled diagnostic table. The unit should be over table tube system compact and occupy minimum space. The unit should be AERB type Approved.

**2. System Configuration**

- 2.1. 80 KW Generator, Remote controlled R/F Table
- 2.2. 12" Image Intensifier, Multi Leaf collimator with auto collimation.
- 2.3. High capacity X-Ray tube.

**3. X-Ray High Voltage Generator**

- 3.1 80KW High voltage generator with inverter frequency of not less than 50KHZ.
- 3.2 Maximum output : 80kW (800ma @ 100kv)
- 3.3 Radiographic kV range: 40-150 kV at 1 kV step
- 3.4 Radiographic mA range: 10-800 mA at 10% to 12.5% steps
- 3.5 Radiographic mAs range: 0.5-800 mAs at 10% to 12.5% steps
- 3.6 Anatomical program memory – user programmable
- 3.7 LED readout for exposure parameter display
- 3.8 Microprocessor controlled with automatic exposure control.
- 3.9 Automatic setting of optimal digital radiography parameters from fluoroscopy parameters (kV, mAs).
- 3.10 Self diagnosis error system should be incorporated.
- 3.11 For 800 mA IITV a high frequency generator of 50 kw+ is usually sufficient.
- 3.12 IITV image intensifier with CCD camera with high gain sensitivity suitable for high frequency 800 mA x-ray machine (AERB approved).
- 3.13 Large image storage capacity with high capacity high resolution image grabber card and peripheral system.
- 3.14 LAN and DICOM connectivity CD writing and USB port.
- 3.15 Facility for image printing with various formats with patient details.

**4 R/F Table**

- 4.1 Table should have motorized movements. It should have floating table top with four way movement remote controlled operation of table movement. Table should be Radiolucent table top and waterproof.
- 4.2 Table tilt : + 90 deg. ~ -25 deg.
- 4.3 Lateral transverse movement of table top: should be 19 or higher.
- 4.4 Table should be Motorized Elevating type for easy patient access.
- 4.5 Longitudinal movement : Not less than 800 mm. Movement of imaging unit is preferred for patient safety.
- 4.6 Oblique tilt Motorized and remote operated +/- 30 deg with 1.5 FFD Extension.
- 4.7 Cassette/Film size: 8x10 inch ~ 14x17 inch.
- 4.8 Exposure programs : Up to 4 on 1 should be possible on Cassette spot film L 3 or 1 for 14x17 and 12x10 should be possible.
- 4.9 Rapid spot filming should be possible. Multi Cassette Size Spot Film device, X Ray Grid: 12:1. 60 lines/cm.
- 4.10 Remote console with integrated Table control and monitor mount.
- 4.11 Table side controls for controlling the table movements.

**5. Two numbers of X-Ray tubes – High speed rotating anode tube of 9000 rpm or better for over and under cough**

- 5.1 Anode heat capacity – not less than 400 kHU**
- 5.2 Focal spot size – Small focus – not more than 0.6mm**
- 5.3 Large focus – not more than 1.2 mm**
- 5.4 Short term rating – 36 kW/80 kW or better**
- 5.5 T cable pair 18 mtrs or more**

**6. Accessories**

- 6.1 For Local Operation Use – LCD colour monitor 17", with Monitor cart & Foot switch for examination room.**
- 6.2 Sub-divisional (up-down) spot (SFD), G.I.Examination kit (Compression cone (flat & triangle) & Barium cup holder), Compression band, Auxillary table top.**
- 6.3 Interphone: Bedside: Microphone, Remote console : Microphone.**
- 6.4 Partition wall with lead window Glass – 1000x800 mm**
- 6.5 Four AERB approved Lead aprons, light weight coat type, 0.5mm Lead equivalent.**
- 6.6 Chest stand with bucky**
- 6.7 Lead protection for fluoroscopy unit, i.e Stray radiation guard**

**7. Power**

- 7.1 Three phase supply**
- 7.2 Servo controlled voltage stabilizer of suitable KVA should be supplied.**

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## **(SL. NO. 9) Specifications for Mobile X ray Machine**

1. Mobile X ray unit required to perform bedside X ray studies in Casualty, ICUs (including NICU), Wards & OTs.

- 1A. The unit should be compact, sturdy, light-weight & easily transportable on its own wheels without dismantling.
- 1B. The unit should be compact - have small foot print. The height of the column stand should not be more than 180 cm for easy transportation.
- 1C. The equipment should be light weight, not more than 160 Kg
- 1D. There should be easy mobility preferably at lower height, ensuring safety when moving around corners, 1D. negotiating bends & ramps.
- 1E. Locking/Braking System : The unit should have effective braking/locking system for parking

### **2. Generator**

- 2A. Single tank X ray generator
- 2B. Power : 3.5 kW or more (preferably multi-pulse)
- 2C. kVp Range : 40-100 kVp or more
- 2D. mAs Range : upto 250 mAs or more
- 2E. mA range : 15 mA to 60 mA or more
- 2F. Exposure time : 10 ms to 5 sec
- 2G. Exposure release : Two step switch with cable length 2 m or longer

### **3. X-ray Tube**

Stationary / Rotating anode tube with standard focal spot size & filter

### **4. Digital Display**

kV and mAs parameters, System ON, System OFF, status and fault messages on the kV and mAs area

### **5. Tube Stand**

Tube stand should be fully counterbalanced with rotations in all directions

### **6. Collimator**

Collimator rotation should be +90 to -90 degrees with auto shut-off lamp facility

### **7. Cassette Storage Box**

The machine should have cassette storage box for minimum 2 cassettes

### **8. Electrical requirement:**

- A. The unit should be operational on main voltage from single phase 180-260 v AC with automatic main compensation.
- B. The machine should operate on 15A power points available in hospital

### **9. AERB**

Should be AERB type approved product ( Copy of AERB Type approval certificate must be enclosed). QA analysis report from AERB approved vendor should be submitted at the time of installation for the supplied mobile X-Ray Machine for AERB registration.

### **10. Warranty**

5 Years comprehensive warranty for complete system including X-ray tubes

## **(SL. NO. 10) OT Tables ( 06 nos )**

Specifications :

The table should be mobile, electrically controlled with battery powered hydraulic drive, Table top should be divided into segments, topped with integral foam padding which is both radio translucent and electrically conductive. The table should rest on easy-rolling castors and should be fitted with brakes.

The Table:

1. Should have a stable base.
2. Should have a powered longitudinal slide for 400-600mm.
3. Should be electro-hydraulic with facility for various positions such as sitting, supine, prone and lateral positions under the microscope.
4. Should have a top that can be adjusted from 50-100 cm height.
5. Should have a top with dimensions 50 cm (w) x – 190 -210cm (L).
6. Should have a head holder for various positions. The head holder should be attached to the main unit.
7. Should have a table top which can rotate towards the right and left by 200-300 each.
8. Should have headboard break 100, up, 850 down with manual and electro-hydraulic operation.
9. The table should have a power source AC 100 V-200V, 50-60hz.
10. Movement should be possible by simply pressing the appropriate buttons on the Remote Control Unit.
11. Should have current leakage less than 70 U/A AC (0.07m Amp).
12. Should be able to take intraop X-Rays of skull and spine.
13. Should have all necessary accessories.
14. Electric control to achieve the following positions.
  - Trendelenburg – 300
  - Reverse Trendelenburg – 250
  - Side tilt – 200-300
  - Back plate raise – 800-900
  - Back plate drop 500
15. Should have radiolucent top.
16. Should have same adjustment to accommodated morbidly obese patients.
17. A single bottom to bring back the table to normal position ( parallel to the floor ).
18. Accessories to fit a head / neck cage.
19. Bracket for attachment of fastening staff.
20. Angle tilt indicator.

**FOR SL. NOS. 11, 12 & 13**

YOU ARE REQUESTED TO SUBMIT THE PROPOSALS WITH TERMS & CONDITIONS.